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# NSC JACKSONVILLE



TECHNICAL REVIEW COMMITTEE

DECEMBER 13, 1989

## NAVAL SUPPLY CENTER JACKSONVILLE

### OVERVIEW

MISSION: Provide supply and support services to fleet units and shore activities, as assigned, and perform such other services as may be directed by the Commander of the Naval Supply Systems Command.

The Naval Supply Center is the principal Navy Supply point for the Southeastern United States, the Caribbean, the Gulf of Mexico, the Panama Canal Zone, Guantanamo Bay and Puerto Rico.

The Command's activities are located in three (3) separate geographic areas. The main site is located on board NAS Jacksonville. Forty miles northeast of the main site is the Fleet Support Center located at Naval Station Mayport. Nineteen miles north of the main site is the Fuel Department facility.

Figure 1 shows the location of the NSC Fuel Department in relation to NAS Jacksonville. Figure 2 is provided to show the layout of the Fuel facility.

The NSC Fuel Department receives, issues, transfers and stores Defense Logistics Agency - owned petroleum products. This facility has a storage capacity of approximately 900,000 barrels or roughly 37,000,000 gallons (1 barrel = 42 gallons) of jet and diesel fuel.

Fuel is transported down-river to Naval Station Mayport and up-river to NAS Jacksonville by commercial barges. This facility also has the capability of transporting fuel by tank truck or rail car.

During FY89, approximately 12,000,000 barrels of jet and diesel fuel passed through this facility.

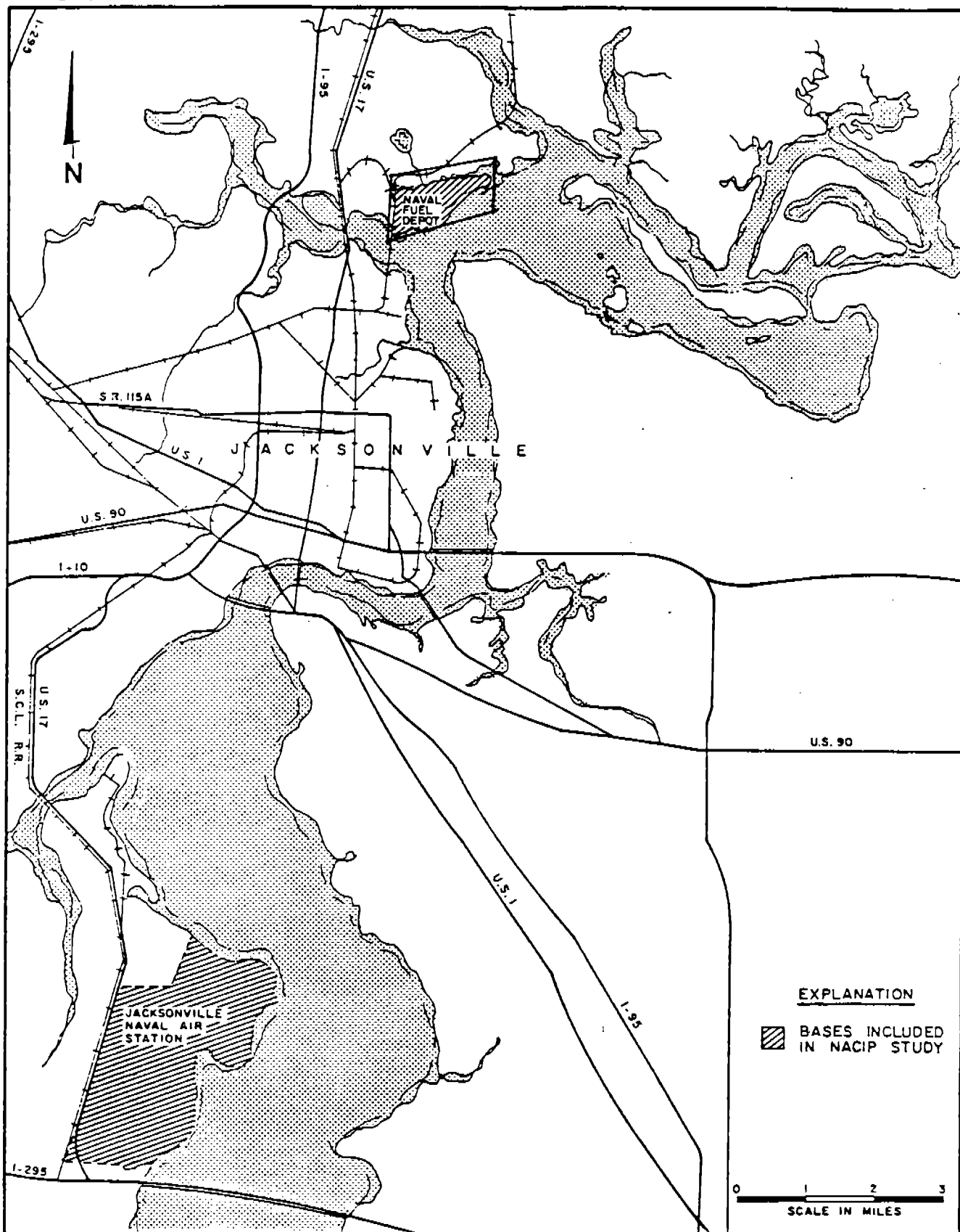
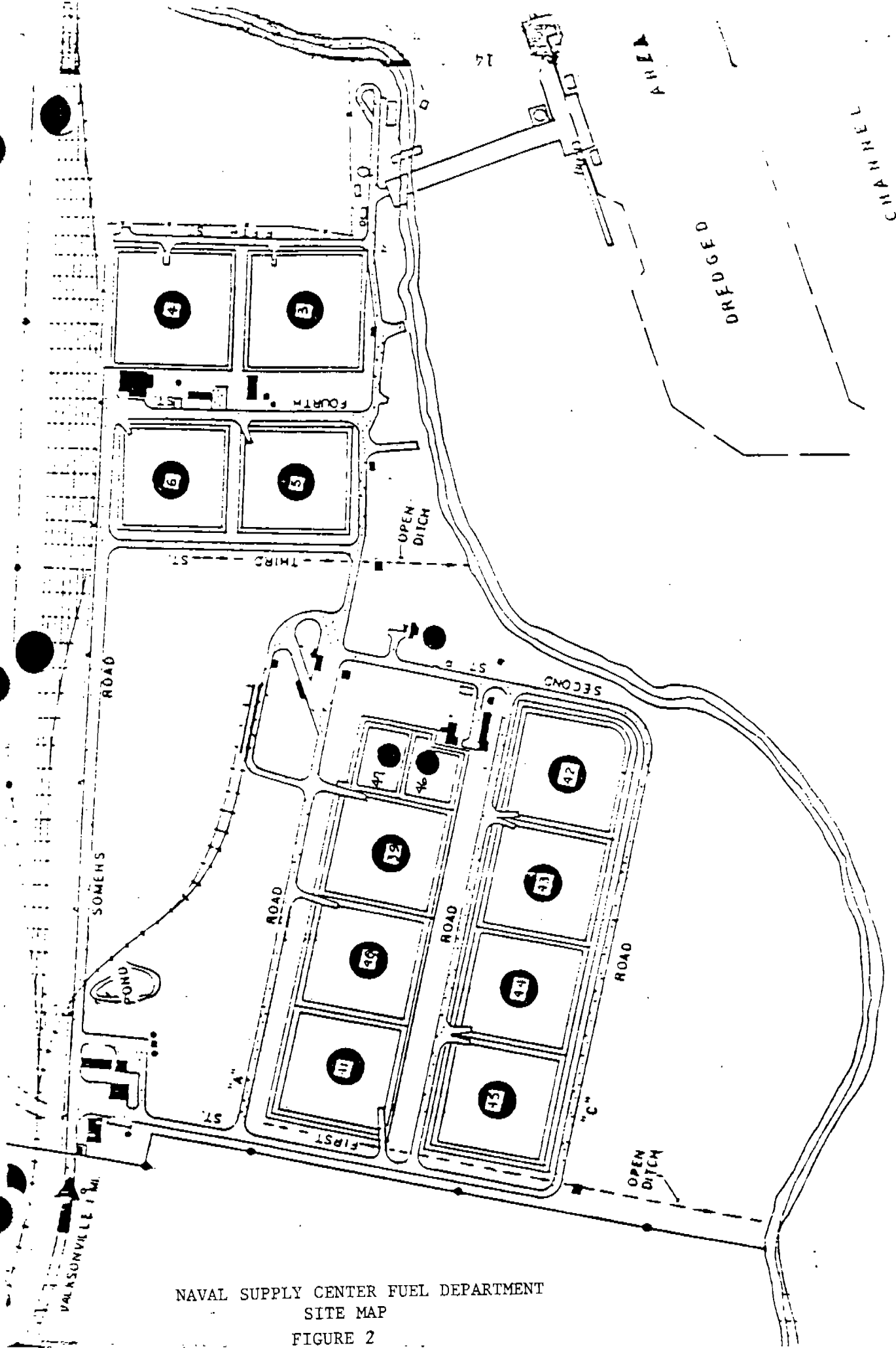


FIGURE 1. Location of the Naval Air Station (NAS) and Naval Fuel Depot (NFD), Jacksonville, Florida.



NAVAL SUPPLY CENTER FUEL DEPARTMENT  
SITE MAP  
FIGURE 2

In March 1983, an Initial Assessment Survey (IAS) was conducted where record searches and personal interviews identified five (5) potentially contaminated sites due to past disposal practices at this installation. These five (5) sites are indicated on the following page (Figure 3).

SITE #1

SLUDGE WEATHERING AREA AND SLURRY PIT

LOCATION:

Adjacent to "C" Road directly south of facility #42.

CONTENTS:

- \* Bottom sludge and rust from fuel tanks.
- \* Washwater generated during tank cleaning.
- \* Approximately 10 bbls of Tetraethyl Lead (TEL) contaminated sludge from AVGAS storage tanks.

DISPOSAL PERIOD:

1976 - 1979

DIMENSIONS:

40' wide by 80' long and approximately 3' - 5' deep.

RECOMMENDATIONS:

No further investigation recommended by this survey.

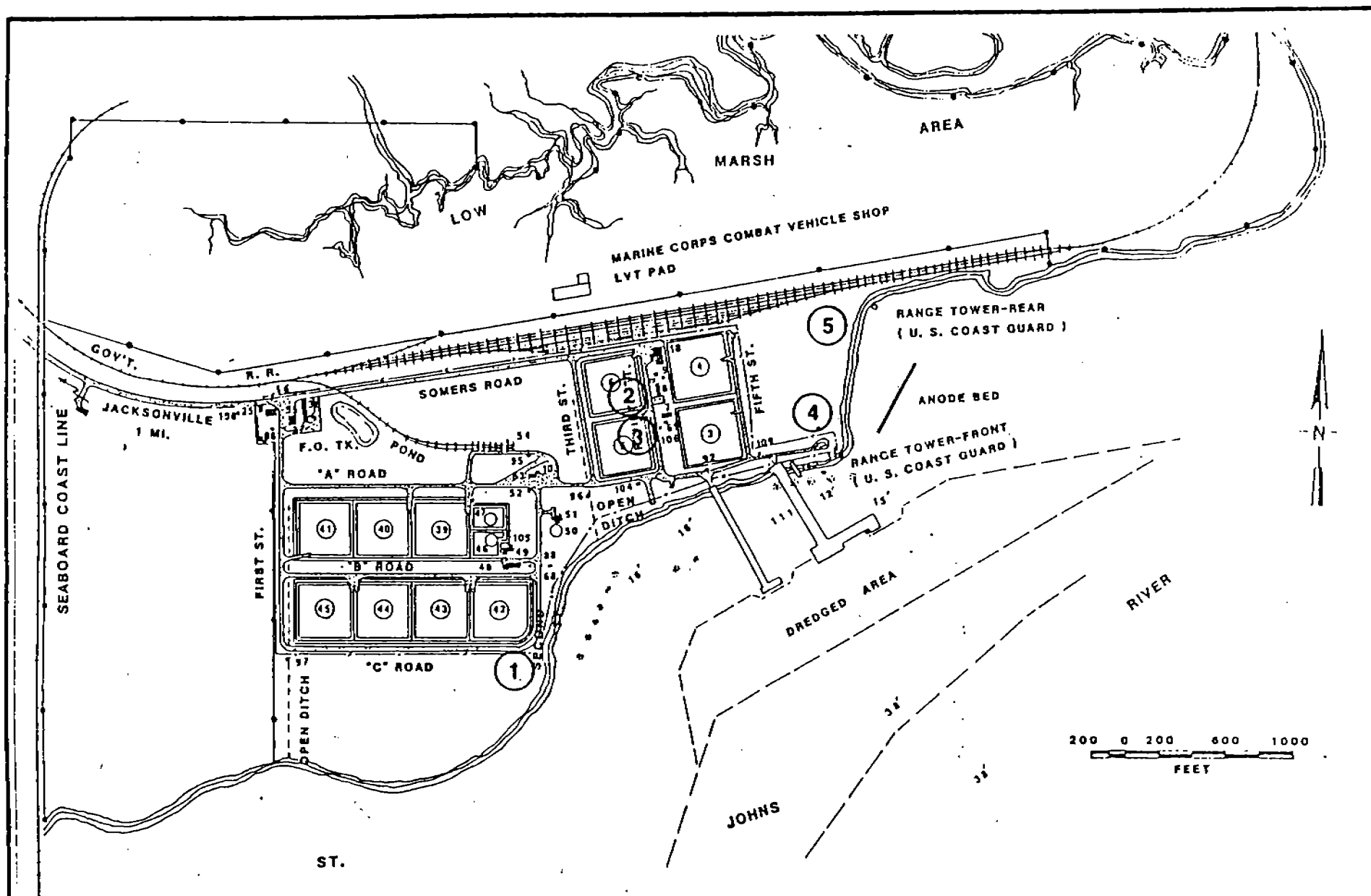


Figure 3.1-2' SPILL/DISPOSAL SITES IDENTIFIED BY IAS TEAM AT NFD JACKSONVILLE.

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INITIAL ASSESSMENT STUDY  
NAVAL AIR STATION  
JACKSONVILLE, FLORIDA

SITE #2

SLURRY PIT / SLUDGE TRENCH (FACILITY #6)

LOCATION:

Southeast of facility #6 inside the containment area of Tank #21.

CONTENTS:

- \* Sludge, rust and washwater generated by tank cleaning.
- \* Approximately 6 bbls of TEL contaminated rust and sludge from AVGAS storage tanks.

DISPOSAL PERIOD:

September 1954 - October 1954

DIMENSIONS:

- a) Slurry Pit - 10' wide by 10' long.
- b) Sludge Trench - 3' wide by 20' long.

RECOMMENDATIONS:

No further investigation recommended by this survey.



SITE #3

SLURRY PIT, (TANK #20)

LOCATION:

Northeast of facility #5 inside the containment area of Tank #20.

CONTENTS:

- \* Sludge, rust and washwater generated by tank cleaning.
- \* Approximately 8 bbls of TEL contaminated rust and sludge from AVGAS storage tanks.

DISPOSAL PERIOD:

September 1954 - October 1954

DIMENSIONS:

10' wide by 10' long

RECOMMENDATION:

No further investigation recommended by this survey.

SITE #4

SLURRY & BURN PIT

LOCATION:

Due east of Fifth Street in the general area of facility #3.

CONTENTS:

- \* Bottom sludge, rust and washwater generated by tank cleaning.
- \* Off-grade petroleum products.
- \* Station generated trash routinely burned in the burn kettle.
- \* Approximately 8,000 bbls of diesel fuel mixed with water.
- \* Approximately 20 bbls of TEL contaminated rust and sludge from AVGAS storage tanks.

DISPOSAL PERIOD:

1965 - 1967

DIMENSIONS:

30' wide by 50' long

RECOMMENDATION:

No further investigation recommended by this survey.

SITE #5

OLD OIL POND AND LAND SPREADING AREA

LOCATION:

Due east of Fifth Street in the general vicinity of facilities #3 & #4.

CONTENTS:

- \* Garbage, wood, debris, etc.
- \* Approximately 8,000 bbls of Waste Oil from an aircraft carrier.
- \* Approximately 5,000 gallons of JP-5 mixed with TEL contaminated sludge.

DISPOSAL PERIOD:

1950's - 1965

DIMENSIONS:

100' wide by 500' long by 1' deep

RECOMMENDATION:

Confirmation Study recommended by this survey!

Of the five (5) Fuel Depot sites investigated, only SITE #5 was recommended for further study.

In August 1983, the Verification Phase of the Confirmation Study was conducted on SITE #5.

#### WORK PERFORMED:

- \* Thirty-two soil borings were drilled in the old oil pond area to determine the extent of contamination of both the soil and groundwater.
- \* Two (2) soil samples were taken and tested for EP Toxicity & metals.
- \* Two (2) monitoring wells were installed east & south of the oil pond. Water samples were taken and tested for pH, specific conductance, VOC's, cyanide and metals.

#### FINDINGS:

- \* Areal extent of oil pond were determined from soil borings.
- \* Analytical results of soil samples indicated non-hazardous waste.
- \* Water quality results showed two (2) VOC's at trace levels (only in NFD-1 and metals below laboratory detection limits in both wells.

#### RECOMMENDATIONS:

Install two (2) additional monitoring wells and collect additional groundwater samples from these wells and NFD-2.

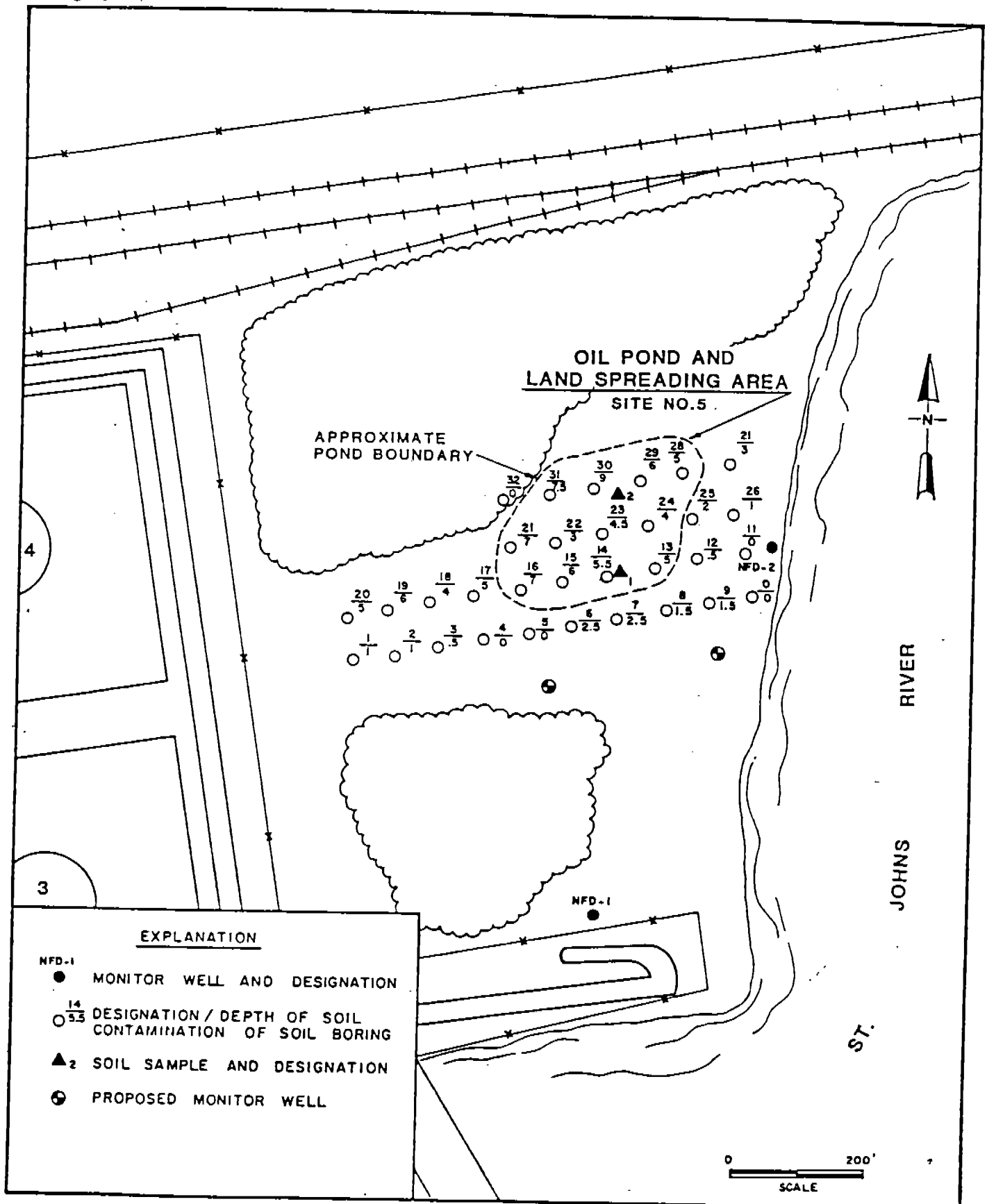


Figure 29. Locations of Installed Monitor Wells and Soil Samples at the Oil Pond and Land Spreading Area (Site No. 5-NFD)

In February 1986, the Characterization Phase of the Confirmation Study was conducted on SITE #5.

WORK PERFORMED:

- \* Installed two (2) new monitoring wells (NFD-3 & NFD-4)
- \* Analyzed groundwater samples from NFD 2, 3 & 4 for dissolved aromatic hydrocarbons and a petroleum hydrocarbon scan.
- \* Measured the water levels in wells.

FINDINGS:

- \* Aromatic hydrocarbons were all below laboratory detection limits.
- \* Petroleum hydrocarbons detected at 1 mg/l in NFD-2 and NFD-3.

RECOMMENDATIONS:

No further action recommended for SITE #5!

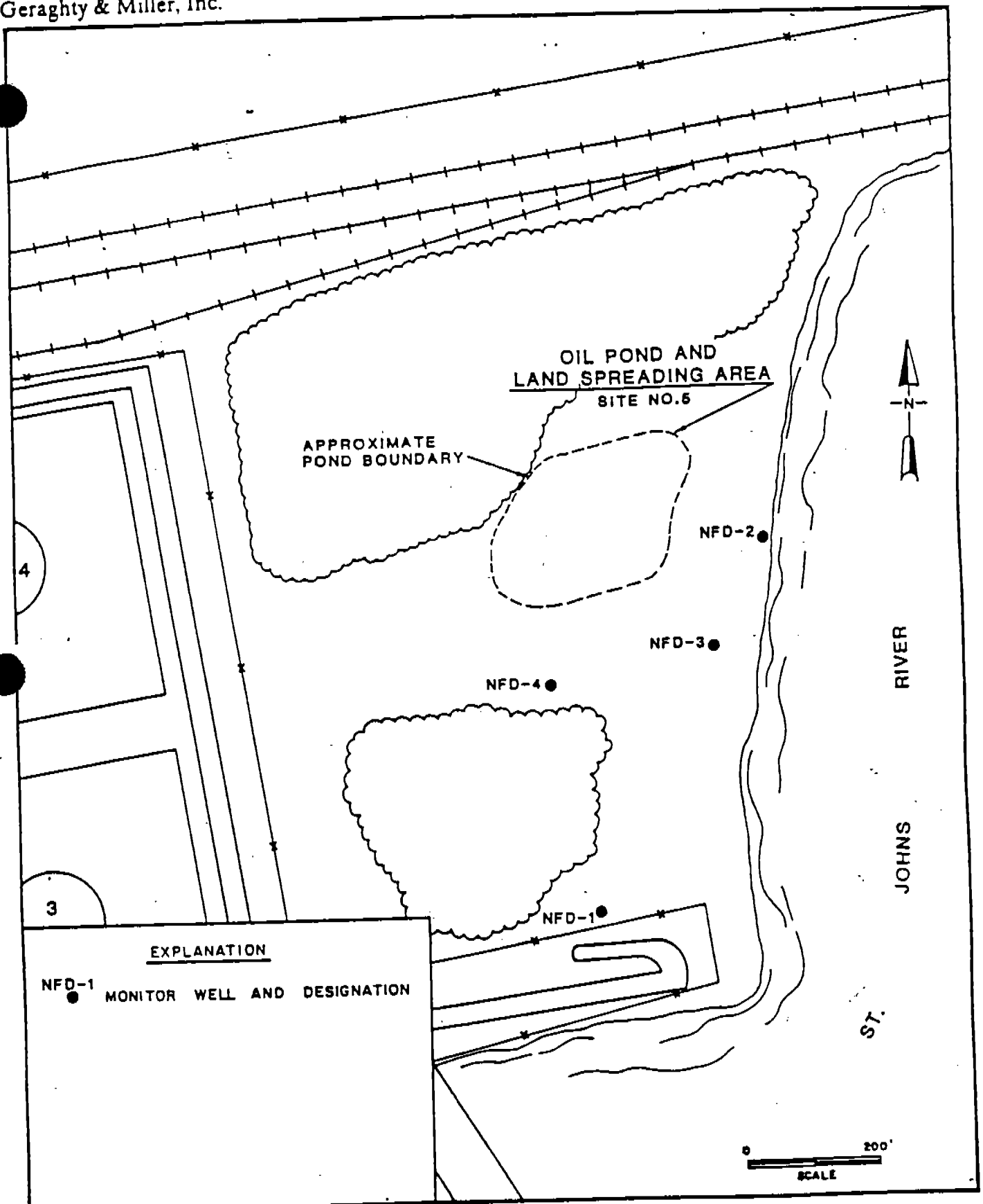


Figure 11. Well Locations, NFD Site No. 5